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Relevance scale **1** [Combining RDF and XML schemas to enhance interoperability between metadata](#)  [application profiles](#)

Jane Hunter, Carl Lagoze

April 2001 **Proceedings of the 10th international conference on World Wide Web****Publisher:** ACM PressFull text available:  [pdf\(525.04 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** RDF, XML, XSLT, interoperability, metadata, schema**2** [Location-based services and mobile computing: data models: Metadata modeling in a](#)  [global computing environment](#)

Dieter Pfoser, Evangelia Pitoura, Nectaria Tryfona

November 2002 **Proceedings of the 10th ACM international symposium on Advances in geographic information systems****Publisher:** ACM PressFull text available:  [pdf\(264.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Emerging computational paradigms such as global and ubiquitous computing require some rethinking and innovative research ideas in many computer science areas. In this work, we aim at studying a mobile computing scenario from the database perspective. Given a global computing environment in which data is kept in a number of small-scale, data-charged, mobile devices that use, e.g., wireless networks, for communication, we want to assess the overall data scenario. We use an example to abstract the ...

Keywords: global computing, metadata, mobile computing, mobile devices, mobile ontologies, spatiotemporal databases**3** [Knowledge representation and retrieval: Metadata models for QoS-aware information](#)  [management systems](#)

Almerindo Graziano, Stefano Russo, Vincenzo Vecchio, Paul Foster

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02****Publisher:** ACM Press

Full text available: [pdf\(81.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The provisioning of multimedia services with guaranteed Quality-of-Service (QoS) is currently an important research issue in computer engineering, especially in the networking and information management areas. In this paper, we concentrate on the QoS-based provisioning of discovery and delivery services of multimedia resources in the educational application domain. We present a generic model for QoS-aware information management systems, able to support guarantee of the QoS in search and delivery ...

Keywords: QoS, metadata, profile, quality of service, standards

4 Prefetch injection based on hardware monitoring and object metadata

 Ali-Reza Adl-Tabatabai, Richard L. Hudson, Mauricio J. Serrano, Sreenivas Subramoney
June 2004 **ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04**, Volume 39
Issue 6

Publisher: ACM Press

Full text available: [pdf\(288.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Cache miss stalls hurt performance because of the large gap between memory and processor speeds - for example, the popular server benchmark SPEC JBB2000 spends 45% of its cycles stalled waiting for memory requests on the Itanium® 2 processor. Traversing linked data structures causes a large portion of these stalls. Prefetching for linked data structures remains a major challenge because serial data dependencies between elements in a linked data structure preclude the timely materialization ...

Keywords: cache misses, compiler optimization, garbage collection, prefetching, profile-guided optimization, virtual machines

5 Service selection and metadata: Automating metadata generation: the simple indexing interface

 Kris Cardinaels, Michael Meire, Erik Duval
May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(302.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

6 Technical Papers: Applying natural language processing (NLP) based metadata extraction to automatically acquire user preferences

 Woojin Paik, Sibel Yilmazel, Eric Brown, Maryjane Poulin, Stephane Dubon, Christophe Amice
October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available: [pdf\(210.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a metadata extraction technique based on natural language

processing (NLP) which extracts personalized information from email communications between financial analysts and their clients. Personalized means connecting users with content in a personally meaningful way to create, grow, and retain online relationships. Personalization often results in the creation of user profiles that store individuals' preferences regarding goods or services offered by various e-commerce merch ...

Keywords: metadata extraction, natural language processing, user preference elicitation

7 Ubiquitous WWW: Profiles for the situated web

 Lalitha Suryanarayana, Johan Hjelm

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(263.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction and presentation) that is so tailored to his/her current situation. This requires the facts and opinions regarding the context to be communicated to the server by means of a profile, which is then applied against the description of the application o ...

Keywords: CC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

8 Poster papers - short papers: Ontology-driven peer profiling in peer-to-peer enabled

 semantic web

Olena Parkhomenko, Yuggyung Lee, E. K. Park

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  pdf(240.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Peer-to-peer (P2P) systems and Semantic Web are two novel technologies that face a lot of shortcomings if considered as isolated paradigms. We present an approach that utilizes ontologies to set up a peer profile containing all the data, necessary for peer-to-peer interoperability. Using this profile can help eliminate some major issues persistent in current P2P networks, such as security, resource aggregation, group management. We also consider applications of peer profiling for Semantic Web bu ...

Keywords: P2P, ontology, peer profile, profiling, semantic web

9 Posters: JISC metadata schema registry

 Rachel Heery, Pete Johnston, Dave Beckett, Nikki Rogers

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(27.55 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: dublin core, learning object metadata, metadata, registry

10

mPERSONA: personalized portals for the wireless user: An agent approach